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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/509,641	09/29/2004	Christian Drohmann	53383 4300		
²⁶⁴⁷⁴ NOVAK DRU		07/12/2007 DELUCA & QUIGG, LLP			
1300 EYE STREET NW SUITE 1000 WEST TOWER			POPOVICS, ROBERT J		
WASHINGTO		··			
			1724		
		•	MAIL DATE	DELIVERY MODE	
			07/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/509,641	DROHMANN ET AL.			
		Examiner	Art Unit			
		Robert J. Popovics	1724			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLEMENTED IN CHEVER IS LONGER, FROM THE MAILING DISTRICT IN THE MAILING DISTRICT	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133)			
Status						
2a) <u></u> ☐	Responsive to communication(s) filed on 4/23 This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under the second	s action is non-final. ince except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) 11-27 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 11-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	wn from consideration.				
	•	·				
10) 🗌	The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a construction and a construction and a construction to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 2.	cepted or b) objected to by the I drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119	•				
12) <u></u> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
2)	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on **December 18, 2006** has been entered.

Information Disclosure Statement

The information disclosure statement filed **December 18, 2006** fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

The information disclosure statement filed **December 18**, **2006** fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent/document listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

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Official Notice

Official Notice of the following is taken:

- 1) **Polystyrene** is a well known conventional filtration aid.
- 2) **PVPP** is a well known conventional filtration aid and/or stabilization agent
- 3) **Compounding** is a well known conventional technique for mixing polymers and/or/with other materials. Conventionally known twin screw extruders are often used to compound or mix polymers and/or/with other materials.
- 4) **Popcorn polymerization** is a well known conventional polymerization method in which the growing polymer chains are crosslinked to one another. The resultant popcorn polymers are generally insoluble and scarcely swellable.
 - 5) Those skilled in the art are aware of Official Notice statements 1-4.

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Claim Rejections - 35 USC § 103

Claims 11-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Klein (US 4,344,846) and Butterworth (US 3,958,023). Butterworth discloses the use of PVPP admixed with conventional filter aids to treat liquids. (see column 2 and claims 1 and 4 of Butterworth). Butterworth does not expressly disclose polystyrene. Klein discloses the use of polystyrene as a filtration aid. It would have been obvious to one skilled in the art to mix (i.e., compound) polystyrene with PVPP in order to practice the invention of Butterworth. The Official Notice statements made above are relied on to the extent that they are needed. The various claimed percentages are parameters that would have been routinely optimized/manipulated by those skilled in the art.

Response to Amendment

The Declarations filed under 37 CFR 1.132 filed **December 18, 2006** are noted. It is unclear why they were provided, or what they are intended to establish.

Any inquiry concerning this communication should be directed to Robert J. Popovics at telephone number (571) 272-1164.

CHX 2.

Robert James Popovics Primary Examiner Art Unit 1724